

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : RE 39,265 E
APPLICATION NO. : 09/708475
DATED : September 5, 2006
INVENTOR(S) : Strupczewski et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

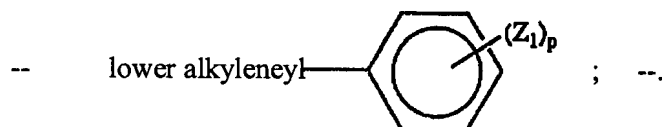
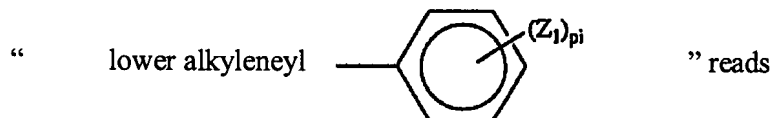
In column 6, line 36, the term " $-\text{CH}_2-\text{C}=\text{CH}-\text{CH}_2-$ " should read
-- $-\text{CH}_2-\text{CH}=\text{CH}-\text{CH}_2-$ --.

In column 9, line 11, the term " (C_1-C) " should read -- $(\text{C}_1-\text{C}_{12})$ --.

In column 9, line 66, the term " CHR_6 " should read -- CHR_8 --.

In column 13, line 44, the term "carboxylic" should read -- carbocyclic --.

In column 15, line 60, in the structure the subscript "i" should not appear, and a semicolon should appear after the chemical structure so that the structure



In column 19, line 9, the term " CHR_6 " should read -- CHR_8 --.

In column 22, line 67, a period should appear after the chemical structure.

In column 24, line 43, the term " CHR_6 " should read -- CHR_8 --.

In column 24, line 44, the phrase " R_9 is $\text{N}-\text{R}_9$ " should read -- R_9 in $\text{N}-\text{R}_9$ --.

In column 25, line 58, a comma should appear immediately after the term "T".

In column 34, line 4, the fragment "benzoxazole" should read -- benzisoxazole --.

In column 35, line 63, the fragment "methoxtrphenyl" should read -- methoxyphenyl --.

In column 38, line 14, the term "Chlorpromaxine" should read -- Chlorpromazine --.

In column 39, line 34, a comma should appear in place of a period, so that the phrase "acid. Primogel," reads as -- acid, Primogel, --.

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In column 42, line 6, a comma should appear in place of a period, so that the term "1 h." reads -- 1 h, --.

In column 49, line 67, a comma should appear in place of a period, so that the term "1 h." reads -- 1 h, --.

In column 50, line 13, the number "58.74%" should read --58.47% --.

In column 51, line 22, the fragment "piperdinyI" should read -- piperidinyI --.

In column 54, line 7, the fragment "piperdinyI" should read -- piperidinyI --.

In column 54, line 26, subscripted value of fifty should be thirty, so that the fragment "H₅₀" reads -- H₃₀ --.

In column 55, line 65, the fragment "piperdinyI" should read -- piperidinyI --.

In column 56, line 39, the extra hyphen should be deleted.

In column 56, line 39, a period should appear in place in of a comma, so that the number "3,4" reads as -- 3.4 --.

In column 56, line 44, the term "being" should read -- beige --.

In column 56, line 45, the term "recrystalized" should read -- recrystallized --.

In column 56, line 48, the term "Calcaulated" should read -- Calculated --.

In column 56, line 56, an additional comma should appear, so that the phrase "(1.5 g 0.0107 mol)," reads -- (1.5 g, 0.0107 mol), --.

In column 56, line 67, the term "addiitiional" should read -- additional --.

In column 57, line 5, the term "Caculated" should read -- Calculated --.

In column 57, line 14, an additional comma should appear, so that the phrase "(1.5 g 0.0067 mol)," reads -- (1.5 g, 0.0067 mol), --.

In column 57, line 18, the term "mxiture" should read -- mixture --.

In column 57, line 37, the term "volume" should read -- mixture --.

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In column 57, line 38, the term "mg" should read -- g --.

In column 57, line 46, the term "SiO₄" should read -- SiO₂ --.

In column 57, line 47, a period should appear in place of a comma, so that the term "1,1" reads -- 1.1 --.

In column 57, line 54, the term "61.5%" should read -- 6.15% --.

In column 57, line 46, the phrase "6.33% H" should read -- 6.33% N --.

In column 58, line 12, the term "acetnotrile" should read -- acetonitrile --.

In column 58, line 39, the term "methylate" should read -- methylene --.

In column 58, line 45, the phrase "80 mol" should read -- 80 ml --.

In column 59, line 9, a comma should appear in place of a period, so that the phrase "dichloromethane. 600 ml" reads -- dichloromethane, 600 ml --.

In column 59, line 34, the term "dicholormethane" should read -- dichloromethane --.

In column 59, line 61, a small letter el should appear in place of capital I, so that the term "HCl" reads -- HCl --.

In column 59, line 65, the term "recrystalize" should read -- recrystallize --.

In column 60, line 3, the term "hydrocyloride" should read -- hydrochloride --.

In column 60, line 3, a dash should appear in place of the second equal sign, so that the phrase "m.p.=139°=141° C." reads -- m.p.=139°-141° C. --

In column 60, line 4, a centerdot should appear in place of a comma, and a small letter el should appear in place of capital I, so that the fragment "O₄,HCl" reads --O₄·HCl --.

In column 60, line 45, an additional comma should appear, so that the phrase "(3.7 g 0.0113 mol)" reads -- (3.7 g, 0.0113 mol) --.

In column 60, line 55, the fragment "benzisoxaol" should read -- benzisoxazol --.

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In column 61, line 20, a centerdot should appear in place of a comma, and the superfluous digit 4 should not appear, so that the fragment "O₂,0.5C₄H₄O₄" should read -- O₂·0.5C₄H₄O₄--.

In column 61, line 35, the term "concentrate" should read -- concentrated --.

In column 61, line 54, the term "i80" should read -- (80 --.

In column 61, line 61, the term "weighted" should read -- weighed --.

In column 62, line 7, a period should appear in place of a comma, so that the number "1,4" reads -- 1.4 --.

In column 62, line 9, a comma should appear in place of a period, and an additional comma should appear, so that the phrase "(2.5 g 0.0103 mol). KI" reads -- (2.5 g, 0.0103 mol), KI --.

In column 62, line 25, the term "9.88N" should read -- 9.88% N --.

In column 62, line 36, the term "dimethylformaide" should read -- dimethylformamide --.

In column 62, line 39, the term "dimethylformaide" should read -- dimethylformamide --.

In column 63, line 14, a comma should appear in place of a period, so that the phrase "mmoles). K₂CO₃" reads -- mmoles), K₂CO₃ --.

In column 63, line 39, the term "inoluble" should read -- insoluble --.

In column 63, line 44, the term "weight" should read -- weighed --.

In column 63, line 64, the term "solified" should read -- solified --.

In column 64, line 2, the term "4.91H" should read -- 4.91% H --.

In column 64, line 17, a small letter el should appear in place of capital I, so that the term "HCl" reads -- HCl --.

In column 64, line 48, the term "dimethylforamide" should read -- dimethylformamide --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 64, line 56, a comma should appear after "g", so that the phrase
"(8.4 g 0.0485 mol)" reads -- (8.4 g, 0.0485 mol) --.

In column 65, line 2, the term "piperdinyI" should read -- piperidinyl --.

In column 65, line 26, the term "solvet" should read -- solvent --.

In column 65, line 44, a comma should appear after "g", so that the phrase
"(2.5 g 0.022 mol)" reads -- (8.4 g, 0.0485 mol) --.

In column 65, line 45, the term "miture" should read -- mixture --.

In column 65, line 53, a small letter el should appear in place of capital I, so that the
term "HCl" reads -- HCl --.

In column 66, line 5, the number "0.0107" should read -- 0.107 --.

In column 66, line 21, a small letter el should appear in place of capital I, so that the
formula " $C_{11}H_{13}ClO_4$ " reads -- $C_{11}H_{13}ClO_4$ --.

In column 67, line 10, the term "ANALSYS" should read -- ANALYSIS --.

In column 67, line 10, a small letter el should appear in place of capital I, so that the
formula " $C_{11}H_{13}ClO_3$ " reads -- $C_{11}H_{13}ClO_3$ --.

In column 67, line 29, a small letter el should appear in place of capital I, so that the
formula " $C_{11}H_{15}ClO_3$ " reads -- $C_{11}H_{15}ClO_3$ --.

In column 67, line 47, a closed bracket symbol should appear in place of the close
parenthesis symbol, so that the fragment "piperidinyl)propoxy]" reads
-- piperidinyl)propoxy] --.

In column 67, line 51, the term "EXAMPE" should read -- EXAMPLE --.

In column 68, line 18, the term "basic" should read -- base --.

In column 68, line 19, a small letter el should appear in place of capital I, so that the
term "HCl" reads -- HCl --.

In column 68, line 24, the term "Calcuated" should read -- Calculated --.

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In column 68, line 24, a period should appear in place of a comma, and small letter "el" in place of capital letter "el", so that the formula " $C_{21}H_{24}FN_3O_2 \cdot 2HCl$ " reads -- $C_{21}H_{24}FN_3O_2 \cdot 2HCl$ --.

In column 68, line 29, the superfluous fragment "propoxy]" should not appear.

In column 68, line 46, a small letter el should appear in place of capital I, so that the formula " $C_{13}H_{16}ClNO_3$ " reads -- $C_{13}H_{16}ClNO_3$ --.

In column 68, line 55, the term "aqueous" should read -- aqueous --.

In column 68, line 58, a small letter el should appear in place of capital I, so that the term "HCl" reads -- HCl --.

In column 69, line 32, the term "piperdiny]" should read -- piperidiny] --.

In column 69, line 46, a small letter el should appear in place of capital I, so that the term "HCl" reads -- HCl --.

In column 69, line 46, the term "recipitated" should read -- precipitated --.

In column 69, line 51, a period should appear in place of a comma, and small letter el in place of capital letter I, so that the formula " $C_{24}H_{29}FN_2O_3 \cdot HCl$ " reads -- $C_{24}H_{29}FN_2O_3 \cdot HCl$ --.

In column 69, line 56, the term "6Fluoro" should read -- 6-Fluoro --.

In column 69, line 67, the term "water/ic" should read -- water/ice --.

In column 70, line 2, the phrase "the concentrated" should read -- then concentrated --.

In column 70, line 7, the term "piperdiny]" should read -- piperidiny] --.

In column 70, line 47, a tilde should appear in place of the minus sign so that the term "(-18 g)" reads -- (~18 g) --.

In column 71, line 5, the formula "NaSO₄" should read -- Na₂SO₄ --.

In column 71, line 21, a tilde should appear in place of the minus sign so that the term "(-110° C.)" reads -- (~110° C.) --.

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In column 71, line 32, a semicolon should appear in place of a colon, so that the term "g:" read -- g; --.

In column 71, line 56, the term "f" should read -- of --.

In column 71, line 59, a hyphen should appear immediately after numeral 1.

In column 71, line 62, a small letter el should appear in place of capital I, so that the term "HCI" reads -- HCl --.

In column 72, line 15, the term "solutio" should read -- solution --.

In column 72, line 21, the term "is" should read -- in --.

In column 72, line 36, a small letter el should appear in place of capital I, so that the formula " $C_{12}H_{16}CINO_2$ " reads -- $C_{12}H_{16}CINO_2$ --.

In column 72, line 58, the term "Calculate" should read -- Calculated --.

In column 73, line 1, the term "dimethylfomamide" should read -- dimethylformamide --.

In column 73 line 4, the term "dimethylformamdie" should read -- dimethylformamide --.

In column 73, line 6, the phrase "is twas" should read -- it was --.

In column 73, line 6, the phrase "in water" should read -- into water --.

In column 73, line 11, the term "sampe" should read -- sample --.

In column 73, line 14, the term "ethy" should read -- ethyl --.

In column 73, line 20, a small letter el should appear in place of capital I, so that the formula " $C_{12}H_{16}CINO_3$ " reads -- $C_{12}H_{16}CINO_3$ --.

In column 73, line 22, the fragment "yl) l" should read -- yl)-1--.

In column 73, line 30, a small letter el should appear in place of capital I, so that the term "HCI" reads -- HCl --.

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In column 73, line 33, the term "Utilizing" should read -- utilizing --.

In column 73, line 55, the term "8.0" should read -- 8.0 g --.

In column 73, line 60, a small letter el should appear in place of capital I, so that the term "HCl" reads -- HCl --.

In column 74, line 1, a small letter el should appear in place of capital I, so that the fragment "HCl" reads -- HCl --.

In column 74, line 18, the fragment "iperidinyI" should read -- piperidinyI --.

In column 74, line 20, a comma should appear in place of a period, so that the phrase "17.7 mmoles)." reads -- 17.7 mmoles), --.

In column 74, line 22, the term "(3g)" should read -- (3 g) --.

In column 74, line 27, the term "weight" should read -- weighed --.

In column 74, line 44, the term "16" should read -- 16 hours. The reaction was poured into water, and the mixture --.

In column 74, line 49, the term "wad" should read -- was --.

In column 74, line 55, the fragment "benzisoxasol" should read -- benzisoxazol --.

In column 74, line 55, the fragment "piperdinyI" should read -- piperidinyI --.

In column 75, line 4, the term "pressue" should read -- pressure --.

In column 75, line 9, the term "based" should read -- base --.

In column 75, line 32, the term "4.2 g" should read -- 4.2 g of --.

In column 75, lines 64 to 65, the term "triphenylphosphate" should read -- triphenylphosphine --.

In column 76, line 5, a small letter el should appear in place of capital I, so that the term "HCl" reads -- HCl --.

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In column 76, line 7, a small letter el should appear in place of capital I, so that the formula " $C_{25}H_{30}CIN_2O_3$ " reads -- $C_{25}H_{30}CIN_2O_3$ --.

In column 76, line 11, the fragment "1,2Benzisoxazol" should read -- 1,2-Benzisoxazol --.

In column 76, line 23, the phrase "20 m" should read -- 20 ml --.

In column 76, line 44, a small letter el should appear in place of capital I, so that the formula " $C_{13}H_{15}CIO_3$ " reads -- $C_{13}H_{15}CIO_3$ --.

In column 76, line 55, the term "acetontrile" should read -- acetonitrile --.

In column 77, line 20, a small letter el should appear in place of capital I, so that the term "HCl" reads -- HCl --.

In column 78, line 13, no period should appear after the term "HPLC".

In column 78, line 18, a small letter el should appear in place of capital I, so that the formula " $C_{12}H_{14}CINO_2$ " reads -- $C_{12}H_{14}CINO_2$ --.

In column 78, line 19, the number "6.89%" should read -- 5.89%--.

In column 78, line 45, the term "dmethylformamide" should read -- dimethylformamide --.

In column 78, line 47, the term "hor" should read -- hour --.

In column 78, line 53, the term "concentratedf" should read -- concentrated --.

In column 78, line 54, the term "chormatography" should read -- chromatography --.

In column 78, line 57, a small letter el should appear in place of capital I, so that the formula " $C_{11}H_{12}CINO$ " reads -- $C_{11}H_{12}CINO$ --.

In column 78, line 63, the number "0.0107" should read -- 0.017 --.

In column 79, line 42, the term "T" should read -- To --.

In column 79, line 44, the term "tetrahydrofuan" should read -- tetrahydrofuran --.

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In column 79, line 46, the term "tetrahydrofuan" should read -- tetrahydrofuran --.

In column 79, line 48, the phrase "and the" should read -- and then --.

In column 81, line 63, the fragment "benzisoaxanol" should read -- benzisoxazol --.

In column 82, line 17, the phrase "concentrated from" should read -- concentrated to afford 21.9 g of a brown solid. The solid was recrystallized from --.

In column 82, line 23, the phrase "was stirred was heated" should read -- was stirred and heated --.

In column 82, line 62, the phrase "EXAMPLE 9" should read -- EXAMPLE 96 --.

In column 83, line 32, the fragment "benzisoaxanol" should read -- benzisoxazol --.

In column 83, line 55, the fragment "benzisoaxanol" should read -- benzisoxazol --.

In column 84, line 14, the fragment "O₃" should read -- O --.

In column 84, line 23, the fragment "aminopropyl" should read -- aminobutyl --.

In column 84, line 42, the term "4thio" should read -- 4-thio --.

In column 85, line 14, a closed bracket symbol should appear after the closed parenthesis symbol, so that the fragment "methoxyphenyl)butylpiperidine" reads -- methoxyphenyl)]butylpiperidine --.

In column 87, line 43, an opened parenthesis symbol should appear so that the fragment "phenylmethyl)" reads -- (phenylmethyl) --.

In column 87, line 53, an opened parenthesis symbol should appear so that the fragment "phenylmethyl)" reads -- (phenylmethyl) --.

In column 87, line 55, an opened parenthesis symbol should appear so that the fragment "phenylmethyl)" reads -- (phenylmethyl) --.

In column 88, line 38, the extra digit and a hyphen should not appear so that the fragment "[4-[4-(4-bromo" reads -- [4-[(4-bromo --.

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In column 90, line 18, a tilde should appear in place of the overline symbol so that the phrase “~80 ml” reads -- ~80 ml --.

In column 90, line 54, a tilde should appear in place of the minus sign so that the phrase “(-7.1 gm)” reads -- (~7.1 gm) --.

In column 91, line 62, a tilde should appear in place of the overline symbol so that the phrase “(5 ml)” reads -- (~5 ml) --.

In column 91, line 64, a tilde should appear in place the overline symbol, and the number should not be superscripted, so that the term , “⁻¹⁰” reads -- ~10 --.

In column 92, line 35, an closed bracket symbol should appear in place of the first closed parentheses symbol so that the fragment “piperidiny)propanol” reads -- piperidiny]propanol --.

In column 92, line 64, a tilde should appear in place of the overline symbol so that the phrase “(5 ml)” reads -- (~5 ml) --.

In column 93, line 59, a tilde should appear in place of the overline symbol so that the phrase “(5° C)” reads -- (~5° C) --.

In column 93, line 60, a tilde should appear in place of the overline symbol so that the number “7 ” reads -- ~7--.

In column 94, Line 10, the fragment “ether” should read -- ethyl --.

In column 94, line 42, the term “gm” should read -- mg --.

In column 96, line 59, a comma should appear in place of the third period so that the phrase “mmol). (S)” reads -- mmol), (S)--.

In column 97, line 57, the fragment “benzioxzol” should read -- benzisoxazol --.

In column 99, line 5, the term “wash” should read -- was --.

In column 99, line 13, the number “₂₅ ” should read -- ₂₃ --.

In column 100, line 35, the number “₂₅ ” should read -- ₂₃ --.

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In column 101, line 46, a tilde should appear in place of the overline symbol so that the phrase “~50° C” reads -- ~50° C --.

In column 103, line 35, the phrase “(4.72 g, 0.03 mole)” should read -- (4.72 g, 0.02 mole), potassium carbonate (4.14 g, 0.03 mole) --.

In column 104, line 48 to 49, a hyphen should appear in the fragment “4methylphthalic” so that it reads -- 4-methylphthalic --.

In column 104, line 50, a period should appear in place of a comma in the term “1,0” so that it reads -- 1.0 --.

In column 104, line 51, a comma should appear in the phrase “(DCM 100 ml)” so that it reads -- (DCM, 100 ml) --.

In column 104, line 53, the term “at” should read -- a --.

In column 104, line 54, the term “SiO₃” should read -- SiO₂ --.

In column 104, line 57, the closed bracket symbol should not appear.

In column 104, line 59, the fragment “O₂” should read -- O₃ --.

In column 104, line 63, the fragment “1.2” should read -- 1,2 --.

In column 104, line 64, the fragment “piperidinyl]-4-” should read -- piperidinyl]ethyl]-4- --.

In column 104, last line, a comma should appear in place of the period in the phrase “(2.63g, 0.01 mole)” so that the phrase reads -- (2.63g, 0.01 mole) --.

In column 105, line 1, a comma should appear in place of the period in the phrase “(1.78 g, 0.01 mole)” so that the phrase reads -- (1.78 g, 0.01 mole) --.

In column 105, line 21, the fragment “ethlyl” should read -- ethyl --.

In column 105, line 24, a comma should appear in place of the period in the fragment “1.2” so that the fragment reads -- 1,2 --.

In column 105, line 39, a period should appear in the number “236” so that the number reads -- 2.36 --.

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In column 105, line 44, the number "59.4096" should read -- 59.40% --.

In column 105, line 45, a period should appear in the number "6,28" so that the number reads -- 6.28 --.

In column 105, line 49, the fragment "1.2" should read -- 1,2 --.

In column 105, line 51, the fragment "1.2" should read -- 1,2 --.

In column 105, line 53, a comma should appear in place of the second period so that the term "mmoles." reads -- mmoles, --.

In column 105, line 60, a comma should appear in place of the first period so that the phrase "(820 mg. 1.0 eq)" reads -- (820 mg, 1.0 eq) --.

In column 105, line 62, the closed bracket symbol should not appear.

In Claim 1, column 106, line 1, the term "(C₃-C 10)" should read -- (C₃-C₁₀) --.

In Claim 1, column 106, line 41, a symbol for a single bond should appear in the term "--(CH₂)₅" so that the term reads -- (CH₂)_n --.

In Claim 1, column 106, line 44, a symbol for a triple bond should appear in place of the symbol for a double bond in the term "--CH₂-C=C-CH₂-" so that the term reads -- -CH₂-C≡C-CH₂-, --.

In Claim 1, column 106, line 45, the last symbol for a single bond in the term "--CH₂-CH=CH-CH₂-CH₂-" should not appear, so that the term reads -- -CH₂-CH=CH-CH₂-CH₂-, as it appears in U.S. patent 5,658,911, column 104, line 47.

In Claim 1, column 106, line 47, a symbol for a triple bond should appear in place of the symbol for a double bond in the term "--CH₂-C=C-CH₂-CH₂-" so that it reads -- -CH₂-C≡C-CH₂-CH₂-, --.

In Claim 1, column 106, line 60, the phrase "--NO₂, -NO₂," should read -- -NO₂, -NH₂, --.

In Claim 1, column 106, line 63, the phrase "mono a dialkylamino," should read -- mono or dialkylamino, --.

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CERTIFICATE OF CORRECTION

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 1, column 107, line 3, the fragment "alkyl,;" should read -- alkyl[,]; --.

In Claim 1, column 107, line 30, the term "--NRF₁₀" should read -- --NHR₁₀ --.

In Claim 8, column 107, line 54, the term "is" as read -- in --.

In Claim 8, column 107, line 57, the fragment "R₃" should read -- R₂ --.

In Claim 9, column 107, line 63, a comma should appear after the term "I", so that the term reads -- I, --.

In Claim 9, column 107, line 64, a symbol for a single bond should appear in the term "OCF₃" so that the term reads -- --OCF₃ --.

In Claim 10, column 107, line 67, the term "5-position" should read -- 6-position --.

In Claim 13, column 108, line 3, the term "is" should read -- in --.

In Claim 15, column 108, line 9, the fragment "butoxy[" should read -- butoxy] --.

In Claim 16, column 108, line 12, an open bracket symbol should appear in place of an open parenthesis symbol in the fragment "1-[4-(3-" so that the fragment reads -- 1-[4-[3- --.

In Claim 16, column 108, line 14, the term "it" should read -- a --.

In Claim 23, column 108, line 41, an open bracket symbol should appear in place of the open parenthesis symbol in the fragment "(4-" so that the fragment reads -- [4- --.

In Claim 23, column 108, line 41, the fragment "ethoxy)" should read -- ethoxy] --.

In Claim 24, column 108, line 45, a hyphen should appear in the fragment "1 piperaziny]" so that it reads -- 1-piperaziny] --.

In Claim 25, column 109, line 27, the term "aryl" should read -- acyl --.

In Claim 26, column 109, line 47, a semicolon should appear at the end of the line, so that the phrase "wherein X is --O--" reads --wherein X is --O--; --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

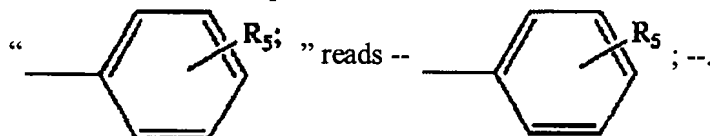
In Claim 26, column 109, line 63, the phrase "*wherein Y is hydrogen,*" should read -- *wherein Y is hydrogen, and R is hydrogen,* --.

In Claim 27, column 110, line 25, the term "aryl" should read --acyl--.

In Claim 28, column 110, line 51, a numeral one should appear in place of the numeral two, so that the phrase "F[, when p is 2;]" reads -- F[, when p is 1;] --.

In Claim 29, column 111, line 23, the first comma should not appear so that the phrase "aryl, lower alkyl," reads -- aryl, lower alkyl,--.

In Claim 29, column 111, line 28, the semicolon should appear after the chemical structure and not as a part of the structure so that the structure



In Claim 30, column 112, line 1, the phrase "--S-, or" should read -- --S-, --NH-, or --.

In Claim 30, column 112, line 22, a fragment "C=" should appear in the term "--CH₂-CH-CH₂--," so that the term reads -- --CH₂-C=CH-CH₂--, --, as it appears in U.S. patent 5,658,911, column 110, line 30.

In Claim 30, column 112, line 23, a symbol for triple bond should appear in place of a symbol for a double bond in the term "--CH₂-C=CH-CH₂--," so that the term reads -- --CH₂-C≡C-CH₂--, --.

In Claim 30, column 112, line 24, a subscript "2", and an additional fragment "CH₂" without a terminal symbol for a single bond should appear in the term "--CH₂-CH=CH₂-CH₂--," so that it reads -- --CH₂-CH=CH-CH₂-CH₂--, --, as it appears in U.S. patent 5,658,911, column 110, line 32.

In Claim 30, column 112, line 26, a symbol for a triple bond should appear in place of the symbol for a double bond in the term "--CH₂-C=C-CH₂-CH₂--," so that the term reads -- --CH₂-C≡C-CH₂-CH₂--, --.

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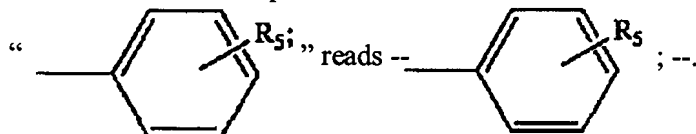
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 30, column 112, line 27, a symbol for a triple bond should appear in place of the symbol for a double bond, and the last symbol for a single bond should not appear in the term " $-\text{CH}_2-\text{CH}_2-\text{C}=\text{C}-\text{CH}_2-$," so that the term reads $-\text{CH}_2-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-$, --as it appears in U.S. patent 5,658,911, column 110, line 35.

In Claim 30, column 112, line 30, an extra digit should not appear, so that the phrase " R_{22} is R_{20} " reads -- R_{22} is R_{20} --, as it appears in U.S. patent 5,658,911, column 110, line 37.

In Claim 30, column 112, line 53, the fragment " (OR_2) " should read -- (OR_7) --.

In Claim 30, column 112, line 60, the semicolon should appear after the chemical structure and not as a part of the structure so that the structure



In Claim 30, column 113, line 8, a symbol for single bond should appear in the term " $\text{NH}-$," so that it reads -- $\text{NH}-$ --.

In Claim 30, column 113, line 8, the term " $-\text{CH}=\text{K}-$," should read -- $-\text{CH}=\text{N}-$ --.

In Claim 30, column 113, line 9, a symbol for a single bond should appear in place of the symbol for a double bond, and an additional symbol for a single bond appear in the term " $-\text{N}=\text{R}_9$," so that the should read -- $\text{N}-\text{R}_9$ --.

In Claim 30, column 113, line 22, the term " C_3 " should read -- C_4 --.

In Claim 31, column 113, line 54, the term " R_1 " should read -- R_2 --.

In Claim 31, column 113, line 55, a comma should appear after the second occurrence of "aryl", so that the phrase "aryl (C_3-C_{10})" reads -- aryl, (C_3-C_{10}) --.

In Claim 31, column 113, line 67, a symbol for triple bond should appear in place of a symbol for a double bond, and a "2" should appear in a subscript in the term " $-\text{CH}_2-\text{C}=\text{C}-\text{CH}_2-$," so that the term reads -- $-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-$ --.

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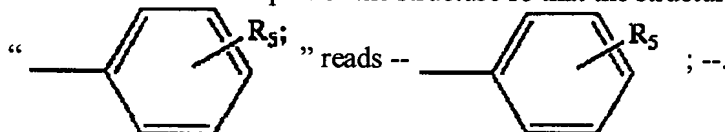
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 31, column 114, line 1, the last dash should not appear, so that the term " $-\text{CH}_2-\text{CH}=\text{CH}-\text{CH}_2-\text{CH}_2-$," reads -- $-\text{CH}_2-\text{CH}=\text{CH}-\text{CH}_2-\text{CH}_2$, --, as it appears in U.S. patent 5,658,911, column 112, line 32.

In Claim 31, column 114, line 3, a symbol for triple bond should appear in place of a symbol for a double bond in the term " $-\text{CH}_2-\text{C}=\text{C}-\text{CH}_2-\text{CH}_2-$," so that the term reads -- $-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-\text{CH}_2-$, --.

In Claim 31, column 114, line 4, a symbol for triple bond should appear in place of a symbol for a double bond and the last symbol for a single bond should not appear in the term " $-\text{CH}_2-\text{CH}_2-\text{C}=\text{C}-\text{CH}_2-$," so that the term reads -- $-\text{CH}_2-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2$, --, as it appears in U.S. patent 5,658,911, column 112, line 35.

In Claim 31, column 114, line 34, the semicolon should appear after the chemical structure and not as a part of the structure so that the structure



In Claim 31, column 114, line 40, the phrase "trifluoromethyl, trifluoromethoxy" should read -- trifluoromethyl, or trifluoromethoxy --.

In Claim 31, column 114, line 49, the term " CH_8 " should read -- CHR_8 --.

In Claim 32, column 115, line 34, the term "alky" should read -- alkyl --.

In Claim 32, column 115, line 42, a symbol for triple bond should appear in place of a symbol for a double bond, and a "2" should appear in a subscript in the term " $-\text{CH}_2-\text{C}=\text{C}-\text{CH}_2-$ " so that the term reads -- $-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-$ --.

In Claim 32, column 115, line 43, the last symbol for a single bond should not appear in the term " $-\text{CH}_2-\text{CH}=\text{CH}-\text{CH}_2-\text{CH}_2-$," so that the term reads -- $-\text{CH}_2-\text{CH}=\text{CH}-\text{CH}_2-\text{CH}_2$, --, as it appears in U.S. patent 5,658,911, column 114, line 32.

In Claim 32, column 115, line 45, a symbol for triple bond should appear in place of a symbol for a double bond in the term the term " $-\text{CH}_2-\text{C}=\text{C}-\text{CH}_2-\text{CH}_2-$," so that the term reads -- $-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-\text{CH}_2-$, --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

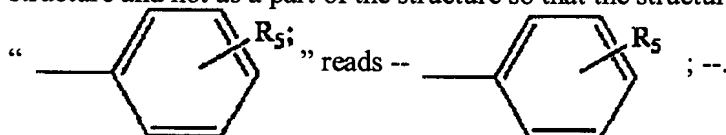
In Claim 32, column 115, line 46, a symbol for triple bond should appear in place of a symbol for a double bond and the last symbol for a single bond should not appear in the term " $-\text{CH}_2-\text{CH}_2-\text{C}=\text{C}-\text{CH}_2-$," so that the term read -- $-\text{CH}_2-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-$, --, as it appears in U.S. patent 5,658,911, column 114, line 35.

In Claim 32, column 115, line 49, the term "substitutes" should read -- substituted --.

In Claim 32, column 115, line 59, a symbol for a single bond should appear in the term " NO_2 " so that the term reads -- $-\text{NO}_2-$ --.

In Claim 32, column 115, line 67, the term " $-(=\text{O})\text{-alkyl}$," should read -- $-\text{C}(=\text{O})\text{-alkyl}$, --.

In Claim 32, column 116, line 7, the semicolon should appear after the chemical structure and not as a part of the structure so that the structure



In Claim 32, column 116, line 14, a comma should follow the term "cyano" so that the term reads -- cyano, --.

In Claim 32, column 116, line 22, an extra dash should not appear, so that the term " $-\text{N}-\text{R}_9$," reads -- $\text{N}-\text{R}_9$; --.

In Claim 33, column 116, line 67, the term "sad" should read -- and --.

In Claim 33, column 117, line 7, the term " R_7 " should read -- R_1 --.

In Claim 33, column 117, line 11, a symbol for a triple bond should appear in place of a symbol for a double bond and a "2" should appear in a subscript in the term in the term " $-\text{CH}_2-\text{C}=\text{C}-\text{CH}_2-$ " so that the terms reads -- $-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-$ --.

In Claim 33, column 117, line 12, the last symbol for a single bond should not appear in the term " $-\text{CH}_2-\text{CH}=\text{CH}-\text{CH}_2-\text{CH}_2-$," so that the term reads -- $-\text{CH}_2-\text{CH}=\text{CH}-\text{CH}_2-\text{CH}_2$, --, as it appears in U.S. patent 5,658,911, column 116, line 27.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 33, column 117, line 14, a symbol for triple bond should appear in place of a symbol for a double bond in the term the term “ $-\text{CH}_2-\text{C}=\text{C}-\text{CH}_2-\text{CH}_2-$,” so that the term reads -- $-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-\text{CH}_2-$, --.

In Claim 33, column 117, line 15, a symbol for triple bond should appear in place of a symbol for a double bond and the last symbol for a single bond should not appear in the term “ $-\text{CH}_2-\text{CH}_2-\text{C}=\text{C}-\text{CH}_2-$,” so that the term read -- $-\text{CH}_2-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-$, --, as it appears in U.S. patent 5,658,911, column 116, line 30.

In Claim 33, column 117, line 27, a term “is” should appear in place of the first comma so that the phrase “ Z_1 , lower” reads -- Z_1 is lower --.

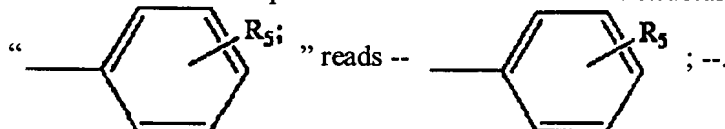
In Claim 33, column 117, line 32, the term “at” should read -- or --.

In Claim 33, column 117, line 32, a comma should appear in the term “dialkylamino” so that the phrase reads as -- dialkylamino, --.

In Claim 33, column 117, line 32, a comma should not appear in the phrase “lower alkyl, thio,” so that the phrase reads as -- lower alkyl thio, --.

In Claim 33, column 117, lines 34 to 35, a comma should appear in the phrase “monoalkylaminocarbonyl dialkylaminocarbonyl,” so that the phrase reads as -- monoalkylaminocarbonyl, dialkylaminocarbonyl,--.

In Claim 33, column 117, line 44, the semicolon should appear after the chemical structure and not as a part of the structure so that the structure



In Claim 33, column 117, line 48, the term “Iodine,” should read -- iodine, --.

In Claim 33, column 117, line 61, the term “alkonyl” should read -- alkanoyl --.

In Claim 33, column 117, line 67, the term “arc” should read -- are --.

In Claim 33, column 118, line 3, a comma should appear in the phrase “R is hydrogen” so that the phrase reads as -- R is hydrogen, --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 33, column 118, line 6, the term " R_7 " should read -- R_{23} --.

In Claim 33, column 118, line 9, which reads "[R_1 is R_{20} ,] $m=1$," should read
-- [R_1 is R_{20} ,] R is H, and $m=1$; --.

In Claim 38, column 118, line 35, the term "producer" should read -- produce --.

In Claim 39, column 118, line 40, the phrase "claimed in 1," should read
-- claimed in claim 1, --.

In Claim 43, column 118, line 55, the phrase "claimed in 1." should read
-- claimed in claim 1. --.

In Claim 45, column 118, line 65, the phrase "sulfuric add" should read
-- sulfuric acid --.

In Claim 46, column 119, line 19, a comma and a space should appear in the phrase
"*aryl*(C_3 - C_{10}) *cycloalkyl*," so that the phrase reads
-- *aryl*, (C_3 - C_{10}) *cycloalkyl*, --.

In Claim 46, column 119, line 20, the term "*lkanoyl*" should read --*alkanoyl* --.

In Claim 46, column 119, line 22, a semicolon should appear in place of a colon, so that
the phrase "2:" reads -- 2; --.

In Claim 46, column 119, line 23, the phrase "*Y hydrogen*" should read
-- *Y is hydrogen* --.

In Claim 46, column 119, line 30, a symbol for a triple bond should appear in place of a
symbol for a double bond, and the number "2" should appear as a subscript in
the term " $-CH_2-C=C-CH_2-$," so that the term reads -- $-CH_2-C \equiv C-CH_2-$, --.

In Claim 46, column 119, line 33, a symbol for a triple bond should appear in place of a
symbol for a double bond in the term " $-CH_2-C=C-CH_2-CH_2-$," so that the
term reads -- $-CH_2-C \equiv C-CH_2-CH_2-$, --.

In Claim 46, column 119, line 34, a symbol for a triple bond should appear in place of a
symbol for a double bond in the term " $-CH_2-CH_2-C=C-CH_2-$," should read
-- $-CH_2-CH_2-C \equiv C-CH_2-$, --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 46, column 119, line 39, the term "*fluoromethyl*" should read
-- *trifluoromethyl* --.

In Claim 46, column 119, line 41, the term "*-(=O)-alkyl*" should read
-- *-C(=O)-alkyl* --.

In Claim 46, column 119, line 67, the phrase "*lower alkoxy*" should read -- *alkoxy*--.

In Claim 46, column 120, line 7, an extra comma should not appear in the phrase
"*C₁-C₄, alkyl*," so that the phrase reads -- *C₁-C₄ alkyl*, --.

In Claim 46, column 120, a comma should appear immediately after the term "*iodine*"
so that the term reads -- *iodine*, --.

In Claim 46, column 120, line 13, an extra comma should not appear in the phrase
"*salt, thereof*" so that the phrase reads -- *salt thereof*--.

In Claim 47, column 120, line 16, the phrase "*-O-, or -O-*," should read
-- *-O-, or -S-*, --.

In Claim 53, column 120, line 32, the phrase "*R is from*" should read
-- *R is selected from* --.

In Claim 53, column 120, line 34, the phrase "*Br*," should read -- *Br, I*, --.

In Claim 54, column 120, line 37, the term "*X*" should read -- *Y* --.

In Claim 62, column 120, line 60, the phrase "*salts mineral acids*," should read
-- *salts of mineral acids*, --.

In Claim 63, column 120, line 66, the phrase "*acetic is acid*" should read
-- *acetic acid* --.

In Claim 64, column 121, line 19, the phrase "*consisting lower*" should read
-- *consisting of lower* --.

In Claim 64, column 121, line 29, the phrase "*alkoxy, alkoxy hydroxy*," should read
-- *alkoxy, hydroxy*, --.

In Claim 64, column 121, line 29, the phrase "*halogen p is*" should read

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

-- *halogen when p is* --.

In Claim 64, column 121, line 32, the term " C_4 " should read -- C_6 --.

In Claim 64, column 121, line 44, which reads " $-NO_2$, or *halogen*," should read
-- $-NO_2$, $-NH_2$, or *halogen*, *p as previously defined*; --.

In Claim 64, column 121, line 48, the term " $-CH_2-C=C-CH_2-$," should read
-- $-CH_2-C\equiv C-CH_2-$, --.

In Claim 64, column 121, line 52, the term " $-CH_2-C=C-CH_2-CH_2-$," should read
-- $-CH_2-C\equiv C-CH_2-CH_2-$, --.

In Claim 64, column 121, line 53, the term " $-CH_2-CH_2-C=C-CH_2-$," should read
-- $-CH_2-CH_2-C\equiv C-CH_2-$, --.

In Claim 64, column 121, line 58, an extra comma should not appear in the phrase
"*lower alkyl, thio*," so that the phrase reads -- *lower alkyl thio*, --.

In Claim 64, column 122, line 9, the term "*flourine*" should read -- *fluorine* --.

In Claim 64, column 122, line 10, a comma should appear after the term
"*dialkylamino*" so that the term reads -- *dialkylamino*, --.

In Claim 64, column 122, lines 10 to 11, a comma should appear after the term
"*trifluoromethyl*" so that the term reads -- *trifluoromethyl*, --.

In Claim 64, column 122, line 24, the phrase "*lower alkoxy*" should read -- *alkoxy* --.

In Claim 64, column 122, line 27, the phrase "*wherein and heteroaryl*" should read
-- *wherein aryl and heteroaryl* --.

In Claim 64, column 122, line 32, the term " C_1C_4 " should read -- C_1-C_4 --.

In Claim 68, column 122, line 45, the term "*and*" should not appear.

In Claim 68, column 122, line 45 to 46, the phrase "*wherein n is 2, 3, or 4*," should
read -- *wherein X is -O-* --.

In Claim 71, column 122, line 52, the term " $-N(R_2)$," should read -- $-N(R_2)$. --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 72, column 122, line 55, the phrase " C_2-C_3 " should read -- C_1-C_3 --.

In Claim 72, column 122, line 57, the term " $-NO_3$ " should read -- $-NO_2$ --.

In Claim 79, column 123, lines 3 to 4, the phrase "*comprises a administering*" should read -- *comprises administering* --.

In Claim 80, column 123, line 8, a comma should appear immediately after the term "*effect*" so that the term reads -- *effect, --*.

In Claim 82, column 123, line 15, the phrase "*carboxylic is acids*" should read -- *carboxylic acids* --.

In Claim 84, column 123, line 44, the phrase "*aryl is defined hereinafter;*" should read -- *aryl is as defined hereinafter; --*.

In Claim 84, column 123, line 45, the phrase "*p is 2;*" should read -- *p is 1 or 2; --*.

In Claim 84, column 123, line 46, a comma should appear immediately after the phrase "*lower alkyl*".

In Claim 84, column 123, line 47, a comma should appear immediately after the term "*iodine*".

In Claim 84, column 123, line 53, the term " $-CH_2-C=C-CH_2-$ " should read -- $-CH_2-C\equiv C-CH_2-$, --.

In Claim 84, column 123, line 56, the term " $-CH_2-C=C-CH_2-CH_2-$ " should read -- $-CH_2-C\equiv C-CH_2-CH_2-$, --.

In Claim 84, column 123, line 57, the term " $-CH_2-CH_2-C=C-CH_2-$ " should read -- $-CH_2-CH_2-C\equiv C-CH_2-$, --.

In Claim 84, column 123, line 61, an extra comma should not appear in the phrase "*lower alkyl, thio,*" so that the phrase reads -- *lower alkyl thio, --*.

In Claim 84, column 123, line 63, a comma should appear immediately after the term "*dialkylaminocarbonyl*".

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 84, column 124, line 5, a semicolon should appear immediately after the chemical structure.

In Claim 84, column 124, line 10, the phrase "*chlorine, bromine,*" should read -- *chlorine, fluorine, bromine,* --.

In Claim 84, column 124, lines 11 to 12, the term "*or*" should appear between the last and next to last members of the definition of R_5 , so that the phrase "*trifluoromethyl, trifluoromethoxy;*" reads -- *trifluoromethyl, or trifluoromethoxy;* --.

In Claim 84, column 124, line 33, the extra comma should not appear immediately after the term " C_1-C_4 ".

In Claim 84, column 124, line 34, a comma appear immediately after the term "*iodine*".

In Claim 85, column 124, line 39, the term "*pharmaceutically*" should read -- *pharmaceutical* --.

In Claim 85, column 124, line 58, the subscript "3" should read --2--, so that the phrase " *R_3 is selected*" reads -- *R_2 is selected* --.

In Claim 85, column 124, line 60, characters "--" and "C" should not be subscripted, so that the term "*(C_2-C_{11})*" reads -- *(C_2-C_{11})* --.

In Claim 85, column 124, line 61, the phrase "*aryl is defined hereinafter;*" should read -- *aryl is as defined hereinafter;* --.

In Claim 85, column 124, line 63, the term "*bromine,*" should appear immediately after the term -- *fluorine,* --.

In Claim 85, column 124, line 64, the second occurrence of the term "*hydroxy,*" in the first definition of Y should be deleted, and the term -- *nitro,* -- should appear in its place.

In Claim 85, column 125, line 1, the term "*s*" should read -- *is* --.

In Claim 85, column 125, line 10, which reads "*--NO₂, or halogen,*" should read -- *--NO₂, --NH₂, or halogen, p as previously defined;* --.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

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DATED : September 5, 2006
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 85, column 125, line 15, a symbol for a triple bond should appear in place of a symbol for a double bond in the term " $-CH_2-C=C-CH_2-$," so that the term reads -- $-CH_2-C\equiv C-CH_2-$, --.

In Claim 85, column 125, line 18, a symbol for a triple bond should appear in place of a symbol for a double bond in the term " $-CH_2-C=C-CH_2-CH_2-$," so that the term reads -- $-CH_2-C\equiv C-CH_2-CH_2-$, --.

In Claim 85, column 125, line 19, a symbol for a triple bond should appear in place of a symbol for a double bond in the term " $-CH_2-CH_2-C=C-CH_2-$," so that the term reads -- $-CH_2-CH_2-C\equiv C-CH_2-$, --.

In Claim 85, column 125, line 23, an extra comma should not appear in the phrase "*lower alkyl, thio,*" so that the phrase reads -- *lower alkyl thio,* --.

In Claim 85, column 125, line 35, a semicolon should appear immediately after the chemical structure.

In Claim 85, column 125, line 39, the term "*flourine*" should read -- *fluorine* --.

In Claim 85, column 125, line 41, the phrase "*trifluoromethyl, trifluoromethoxy,*" should read -- *trifluoromethyl, or trifluoromethoxy;* --.

In Claim 85, column 125, line 53, the phrase "*lower alkoxy*" should read -- *alkoxy* --.

In Claim 85, column 125, line 56, the phrase "*where and heteroaryl*" should read -- *wherein aryl and heteroaryl* --.

In Claim 85, column 125, line 60, the term " C_1C_4 " should read -- C_1-C_4 --.

In Claim 85, column 125, line 61, the phrase " R_{23} is C_1-C_4 alkyl;" should read -- R_{23} is H or C_1-C_4 alkyl; --.

In Claim 86, column 126, line 22, the phrase "*aryl is defined hereinafter;*" should read -- *aryl is as defined hereinafter;* --.

In Claim 86, column 126, line 31, a symbol for a triple bond should appear in place of a symbol for a double bond, and the number "2" should appear subscripted in the term " $-CH_2-C=C-CH_2-$," so that the term reads -- $-CH_2-C\equiv C-CH_2-$, --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 86, column 126, line 34, a symbol for a triple bond should appear in place of a symbol for a double bond in the term " $-CH_2-C=C-CH_2-CH_2-$," so that the term reads -- $-CH_2-C\equiv C-CH_2-CH_2-$, --.

In Claim 86, column 126, line 35, a symbol for a triple bond should appear in place of a symbol for a double bond in the term " $-CH_2-CH_2-C=C-CH_2-$," so that the term reads -- " $-CH_2-CH_2-C\equiv C-CH_2-$, --.

In Claim 86, column 126, line 39, the term "13" should not appear.

In Claim 86, column 126, line 50, a semicolon should appear immediately after the chemical structure.

In Claim 86, column 126, line 56, the phrase "*trifluoromethyl, trifluoromethoxy*;" should read -- *trifluoromethyl, or trifluoromethoxy*; --.

In Claim 86, column 127, line 2, the phrase "*lower alkoxy*" should read -- *alkoxy* --.

In Claim 86, column 127, line 10, the phrase " R_{23} is C_1-C_4 alkyl;" should read -- R_{23} is H or C_1-C_4 alkyl; --.

In Claim 87, column 127, line 36, the phrase "*aryl is defined hereinafter*;" should read -- *aryl is as defined hereinafter*; --.

In Claim 87, column 127, line 44, the subscripted "4" should read as --6--, so that the phrase " C_1-C_4 " reads as -- C_1-C_6 --.

In Claim 87, column 127, line 53, which reads " $-NO_2$, or halogen;" should read -- $-NO_2$, $-NH_2$, or halogen, *p as previously defined*; --.

In Claim 87, column 127, line 55, which reads " R_i " should read -- R_{2i} --.

In Claim 87, column 127, line 57, a symbol for a triple bond should appear in place of a symbol for a double bond and the last number "2" should appear subscripted in the term " $-CH_2-C=C-CH_2-$," so that the term reads -- $-CH_2-C\equiv C-CH_2-$, --.

In Claim 87, column 127, line 60, a symbol for a triple bond should appear in place of a symbol for a double bond in the term " $-CH_2-C=C-CH_2-CH_2-$," so that the term reads -- $-CH_2-C\equiv C-CH_2-CH_2-$, --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 87, column 127, line 61, a symbol for a triple bond should appear in place of a symbol for a double bond in the term " $-CH_2-CH_2-C=C-CH_2-$," so that the term reads -- $-CH_2-CH_2-C\equiv C-CH_2-$, --.

In Claim 87, column 128, line 1, immediately in front of the term "*dialkylaminocarbonyl*" the term --*monoalkylaminocarbonyl*, -- should appear.

In Claim 87, column 128, line 3, the term "*13*" should not appear.

In Claim 87, column 128, line 4, a symbol for a single bond should appear in the term " $C(=W)$ -aryl," so that the term reads -- $-C(=W)$ -aryl, --.

In Claim 87, column 128, line 10, a semicolon should appear immediately after the chemical structure.

In Claim 87, column 128, line 17, the phrase "*trifluoromethyl, trifluoromethoxy*," should read -- *trifluoromethyl, or trifluoromethoxy*; --.

In Claim 87, column 128, line 36, a comma should appear after numeral "2", so that the phrase "*2 or 3*" reads -- *2, or 3* --.

In Claim 87, column 128, line 40, the phrase " R_{23} is C_1-C_4 alkyl;" should read -- R_{23} is *H or C_1-C_4 alkyl*; --.

In Claim 90, column 129, line 10, the phrase "*aryl is defined hereinafter*;" should read -- *aryl is as defined hereinafter*; --.

In Claim 90, column 129, line 20, a symbol for a triple bond should appear in place of a symbol for a double bond in the term " $-CH_2-C=C-CH_2-$," so that the term reads -- $-CH_2-C\equiv C-CH_2-$, --.

In Claim 90, column 129, line 23, a symbol for a triple bond should appear in place of a symbol for a double bond in the term " $-CH_2-C=C-CH_2-CH_2-$," so that the term reads -- $-CH_2-C\equiv C-CH_2-CH_2-$, --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 90, column 129, line 24, a symbol for a triple bond should appear in place of a symbol for a double bond in the term " $-CH_2-CH_2-C=C-CH_2-$," so that the term reads -- $-CH_2-CH_2-C\equiv C-CH_2-$, --.

In Claim 90, column 129, line 37, the term "13" should not appear.

In Claim 90, column 129, line 38, a symbol for a single bond should appear in the term " $C(=W)$ -aryl," so that the term reads -- $-C(=W)$ -aryl, --.

In Claim 90, column 129, line 44, a semicolon should appear immediately after the chemical structure.

In Claim 90, column 129, line 51, the phrase "*trifluoromethyl, trifluoromethoxy*," should read -- *trifluoromethyl, or trifluoromethoxy*; --.

In Claim 90, column 129, line 66, the term "aryl," should read as
-- aryl, $-C(=O)$ -aryl, or $-C(=O)$ -heteroaryl,
wherein aryl and heteroaryl are as defined above; and
m is 1, 2, or 3;
with the exclusion of compounds wherein X is O or S, Y is hydrogen, and R is
hydrogen, C_1-C_4 alkyl, chlorine, fluorine, bromine, iodine, cyano,
 C_1-C_4 alkoxy, or $-COOR_{23}$ wherein R_{23} is H or C_1-C_4 alkyl;
all geometric, optical and stereoisomers thereof, or a pharmaceutically
acceptable acid addition salt thereof, in an amount sufficient to produce
a pain-relieving effect, and a pharmaceutically acceptable carrier
therefor. --

In Claim 91, column 130, line 22, the phrase "aryl is defined" should read
-- aryl is as defined --.

In Claim 91, column 130, line 30, the term " C_4 " should read -- C_6 --.

In Claim 91, column 130, line 38, which reads " $-NO_2$, or halogen," should read
-- $-NO_2$, $-NH_2$, or halogen, p as previously defined; --.

In Claim 91, column 130, line 42, a symbol for a triple bond should appear in place of a symbol for a double bond the term " $-CH_2-C=C-CH_2-$," so that the term reads -- $-CH_2-C\equiv C-CH_2-$, --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 91, column 130, line 45, a symbol for a triple bond should appear in place of a symbol for a double bond the term " $-CH_2-C=C-CH_2-CH_2-$," so that the term reads -- $-CH_2-C\equiv C-CH_2-CH_2-$, --.

In Claim 91, column 130, line 46, a symbol for a triple bond should appear in place of a symbol for a double bond the term " $-CH_2-CH_2-C=C-CH_2-$," so that the term reads -- $-CH_2-CH_2-C\equiv C-CH_2-$, --.

In Claim 91, column 130, line 63, a semicolon should appear immediately after the chemical structure.

In Claim 91, column 131, line 2, the phrase "*trifluoromethyl, trifluoromethoxy;*" should read -- *trifluoromethyl, or trifluoromethoxy;* --.

In Claim 91, column 131, line 11, the phrase "*lower alkyl, or alkyl*" should read -- *lower alkyl, or lower alkyl-(C=O)-;* --.

In Claim 91, column 131, line 17, a comma should appear after numeral "2", so that the phrase "*2 or 3*" reads -- *2, or 3* --.

In Claim 91, column 131, line 21, the phrase " R_{23} is C_1-C_4 alkyl;" should read -- R_{23} is H or C_1-C_4 alkyl; --.

In Claim 91, column 131, lines 26 to 27, the phrase "*an antipsychotic effect*" should read -- *a pain-relieving effect* --.

In Claim 94, column 131, line 52, the phrase "*consisting lower*" should read -- *consisting of lower* --.

In Claim 94, column 131, line 60, the second instance of "*alkoxy*" should not appear.

In Claim 94, column 131, line 62, the phrase "*n is 2, 3, or 5;*" should read -- *n is 2, 3, 4, or 5;* --.

In Claim 94, column 131, line 65, an extra comma should not appear in the phrase "*lower alkyl, thio,*" so that the phrase reads -- *lower alkyl thio,* --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 94, column 131, line 67, immediately after the term "*aminocarbonyl*" the term --*monoalkylaminocarbonyl*-- should appear.

In Claim 94, column 131, line 67, to column 132, line 1, immediately after the term "*dialkylaminocarbonyl*" a comma should appear.

In Claim 94, column 132, line 3, a comma should appear in place of a semicolon in the fragment "*alkyl*;" so that the fragment reads -- *alkyl*, --.

In Claim 94, column 132, line 7, a semicolon should appear immediately after the chemical structure.

In Claim 94, column 132, line 13, the term "*flourine*" should read -- *fluorine* --.

In Claim 94, column 132, line 31, the phrase "*m is 1, 2, or 3*," should be followed immediately by the phrase -- *with the proviso that at least one R is selected from the group consisting of dialkylaminocarbonyl, formyl, -C(=W)-aryl, and -C(=W)-heteroaryl*; --.

In Claim 94, column 132, line 34, the phrase "*R₂₃ is C₁-C₄ alkyl*;" should read -- *R₂₃ is H or C₁-C₄ alkyl*; --.

In Claim 94, column 132, line 35, the superfluous line "*where R₂₃ is C₁-C₄ alkyl*;" should be deleted in its entirety.

In Claim 94, column 132, line 36, the phrase "*-S-, R*" should read -- *-S-, R₁ is R₂₀ R* --.

In Claim 94, column 132, line 40, the term "*thereof*," should read -- *thereof, in an amount sufficient to produce a pain-relieving effect, and a pharmaceutically acceptable carrier therefor*. --.

In Claim 95, column 132, line 42, the term "*or*" and a symbol for a single bond should appear in the phrase "*-S-, -NH-*" so that the phrase reads -- *-S-, or -NH-*. --.

In Claim 102, column 132, line 59, the phrase "*wherein is*" should read -- *wherein X is* --.

In Claim 102, column 132, line 61, a comma should appear after the phrase "*hydrogen C₁-C₃*" so that the phrase reads -- *hydrogen, C₁-C₃* --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 102, column 132, line 63, the phrase "*or -CF₃;*" should read -- *and -CF₃;* --.

In Claim 108, column 133, line 8, the phrase "*effect, a*" should read -- *effect, and a* --.

In Claim 109, column 133, line 11, the term "*ministering*" should read
-- *administering* --.

In Claim 109, column 133, line 11, the term "*amount*" should read
-- *effective amount* --.

In Claim 112, column 134, line 6, the phrase "*salts of acids,*" should read
-- *salts of mineral acids,* --.

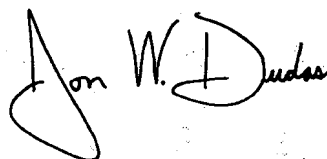
In Claim 112, column 134, line 6, the term "*slats*" should read -- *salts* --.

In Claim 113, column 134, line 12, the phrase "*group of salts*" should read
-- *group consisting of salts* --.

In Claim 113, column 134, line 13, a comma should appear in the phrase "*acetic acid propionic acid,*" so that the phrase reads -- *acetic acid, propionic acid,* --.

Signed and Sealed this

Second Day of October, 2007



JON W. DUDAS
Director of the United States Patent and Trademark Office